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Editorial

Preface special issue “dynamics in bio-systems” (DSABNS 2016)



Applications of Mathematics to Life Science problems require highly interdisciplinary/multidisciplinary approaches, and significant developments in Mathematics, in order to address fundamental questions in biology. It is inherently a difficult task and concepts from various fields of Mathematics, as well as availability of good data, are needed.

On February 2–5, 2016, a scientific annual workshop was held at the Escola de Ciências e Tecnologia of Évora University in Portugal, the “Seventh Workshop on Dynamical Systems Applied to Biology and Natural Sciences: DSABNS 2016”. It brought together about ninety scientists from fifteen different countries in Europe, Americas, Middle-East and Asia to discuss the most recent results and methodologies currently used to investigate biological problems in applied mathematics research.

The collection of selected papers presented in this special issue of Ecological Complexity, following the traditionally rigorous reviewing standards of this journal, is based on the research topics presented during DSABNS 2016. It is therefore by no means a coincidence that some of the guest editors for this volume were also workshop organizers. The workshop covered both theoretical

methods and practical applications and we hope that this volume gives a good overview of the recent research on applied mathematics concerning interesting questions on population dynamics, eco-epidemiology, epidemiology of infectious diseases and methodological issues.

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